

Claims

1. A laminated product whose thickness can be adjusted by exfoliation, this product having alternating stack (10) of sheets (11) and layers (12) of an adhesive material, each sheet (11) having an intrinsic resistance to tearing, and each layer (12) of adhesive material connecting two adjacent sheets (11) of stack (10) to one another by a bonding force which is less than the resistance of sheets (11) to tearing, from which it results that each sheet (11) can be detached from stack (10) without being torn, characterized by the fact that it has housing (20) provided within thickness of stack (10), and electronic identification component (30) arranged in housing (20).

2. A product according to Claim 1, characterized by the fact that electronic component (30) has memory (31) for storage of identification information identifying or characterizing the product, and transmission device (32) that can be queried at a distance and is capable of transmitting the identification information stored in memory (31).

3. A product according to Claim 2, characterized by the fact that the identification information stored in memory (31) includes at least the serial number of the product.

4. A product according to either of Claims 2 and 3, characterized by the fact that memory (31) has a large storage capacity, sufficient for storing at least a major part of the identification information such as: identification of the manufacturer of the product, type of product, reference of the order, identification of the client, identification of the material constituting the product and reference of the material certificate, reference of the standard applicable to the manufacturing of the product, reference of the technical specifications of the product, reference of the certificate of compliance with standards, manufacturing date, reference of the delivery voucher, delivery date.

5. A product according to Claim 4, characterized by the fact that memory (31) has a storage capacity of at least 512 bits.

6. A product according to Claim 4 or 5, characterized by the fact that certain identification information is stored in memory (31) in coded form.

7. A product according to any one of Claims 4-6, characterized by the fact that transmission device (32) is capable of receiving identification information at a distance and of writing it in memory (31).

8. A product according to Claim 7, characterized by the fact that electronic component (30) can be locked in terms of writing.

9. A product according to any one of Claims 4-8, characterized by the fact that electronic component (30) has the general shape of a cylinder whose exterior diameter is less than 4 mm.

10. A product according to any one of Claims 4-9, characterized by the fact that electronic component (30) has some means for measurement of temperature and/or of pressure and/or of vibrations and/or of irradiation, transmission device (32) being capable of transmitting the results of the measurements made by said means.

11. A product according to either of Claims 2 and 3, characterized by the fact that electronic identification component (30) has a very small thickness, memory (31) having sufficient storage capacity for storing the essential identification information, the other information being stored on an external support.

12. A product according to Claim 11, characterized by the fact that electronic identification component (30) has a thickness less than 200 μm .

13. A product according to Claim 11 or 12, characterized by the fact that electronic identification component (30) has a cross section less than 2.5 mm^2 .

14. A product according to any one of Claims 11-13, characterized by the fact that memory (31) has a capacity greater than 64 bits.

15. A product according to any one of Claims 11-14, characterized by the fact that electronic component (30) can be used in read mode alone.

16. A product according to any one of Claims 1-15, characterized by the fact that housing (20) is delimited by interior wall (21), with hardening filling material (22) filling housing (20) around electronic component (30) and connecting it to interior wall (21).

17. A product according to Claim 15, characterized by the fact that filling material (22) is a resin, for example, an epoxy, phenolic, vinyl ester or polyvinyl resin.

18. A product according to any one of Claims 1-17, characterized by the fact that sheets (11) consist of a metallic or composite material.

19. A product according to any one of Claims 1-18, characterized by the fact that sheets (11) all extend parallel to a plane of reference (P), housing (20) also extending parallel to the plane of reference (P).

20. A system for identification and monitoring of laminated products whose thicknesses can be adjusted by exfoliation,

each of these products having alternating stack (10) of sheets (11) and layers (12) of an adhesive material, each sheet (11) having an intrinsic resistance to tearing, and each layer (12) of adhesive material connecting two adjacent sheets (11) of stack (10) to one another by a bonding force which is less than the resistance of sheets (11) to tearing, from which it results that each sheet (11) can be detached from stack (10) without being torn, characterized by the fact that it includes a number of laminated products each provided with electronic identification component (30), and reading unit (42), electronic component (30) containing memory (31) for storage of identification information identifying or characterizing the product, and transmission device (32) capable of transmitting the identification information stored in memory (31), reading unit (42)

communicating with transmission device (32) of electronic component (30) and being capable of consulting the identification information stored in memory (31).

21. A system according to Claim 20, characterized by the fact that reading unit (42) is portable and communicates at a distance, without a wire link, with electronic component (30).

22. A system according to either of Claims 20 and 21, characterized by the fact that it has information processing unit (41) for management of the identification information, reading unit (42) being capable of transmitting the information read in memory (31) to information processing unit (41).

23. A system according to Claim 22, characterized by the fact that reading unit (42) is capable of transmitting to electronic component (30) the identification information managed by information processing unit (41), for writing in memory (31).

24. A system according to Claim 22 or 23, characterized by the fact that information processing unit (41) carries out the coding and decoding of certain identification information stored in coded form in memory (31).

25. A system according to Claim 24, characterized by the fact that the coding and decoding of the identification information are done using tables putting in correspondence the information to be coded and an alphanumeric code to be stored in memory (31).

26. An application of a product according to any one of Claims 1-19 to the constitution of a peelable adjustment shim for mechanical assemblies.